

# FILE NOTATIONS

Entered in N I D File ✓

Entered On S R Sheet                     

Location Map Pinned                     

Card Indexed ✓

I W R for State or Fee Land                     

Checked by Chief                     

Copy N I D to Field Office                     

Approval Letter ✓

Disapproval Letter                     

## COMPLETION DATA:

Date Well Completed                     

OW            WW            TA           

GW            OS            PA           

Location Inspected                     

Bond released                     

State of Fee Land                     

## LOGS FILED

Driller's Log ✓

Electric Logs (No. ) NLR

E            I            E-I            GR            GR-N            Micro           

Lat            Mi-L            Sonic            Others

41 S 12W 14

42-053-30029

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

## 1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

## b. TYPE OF WELL

OIL  
WELL ☒GAS  
WELL ☐

OTHER

SINGLE  
ZONE ☒MULTIPLE  
ZONE ☐

## 2. NAME OF OPERATOR

Zion Crude Oil Company

## 3. ADDRESS OF OPERATOR

POB 370, Hurricane, Utah 84737

## 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*

At surface 40' FNL & 1240' FWL SEC 23, T41S, R12W, SLM  
Ref. point Mohawk Petro. #6 1958  
At proposed prod. zone same  
(NE NW 1/4)

## 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

approx. 1 mile NE of Virgin, Utah

## 15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drlg. unit line, if any)

## 16. NO. OF ACRES IN LEASE

360

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

-----

18. DISTANCE FROM PROPOSED LOCATION\*  
TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

## 19. PROPOSED DEPTH

2000'

## 20. ROTARY OR CABLE TOOLS

Rotary

## 21. ELEVATIONS (Show whether DF, RT, GR, etc.)

3612' GR

22. APPROX. DATE WORK WILL START\*  
within 90 days of  
completion GUS #1

## 23.

## PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
8" surface	7" OD	approx. 11.5 #/ft.	40' to 80'	cemented to the surface ✓ of the ground

## Explanation of well GUS #2:

- A) This location will be used if we are unsuccessful with GUS #1. As was stated in the completion reports for #6, #6A, & #6B, subterranean faulting causing excessive deviation from the the target oil zone may make the successful completion of the well impossible; under those circumstances, we would like to try again with GUS #2.
- B) GUS #2 is in the immediate area of #6 and of GUS #1; no additional surface disturbance will be required. All other information other than the precise location of the well is the same as that for GUS #1; EXHIBITS A thru F, a stipulation for GUS #2 and copies of the APD's for GUS #1 and #6 are included with this APD.
- C) We request that the information on these wells be kept confidential.  
Thank you.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

## 24.

SIGNED

*Martin Kuetzing*

TITLE

Vice-President.

DATE

4-27-77

(This space for Federal or State office use)

PERMIT NO.

43-053-36029

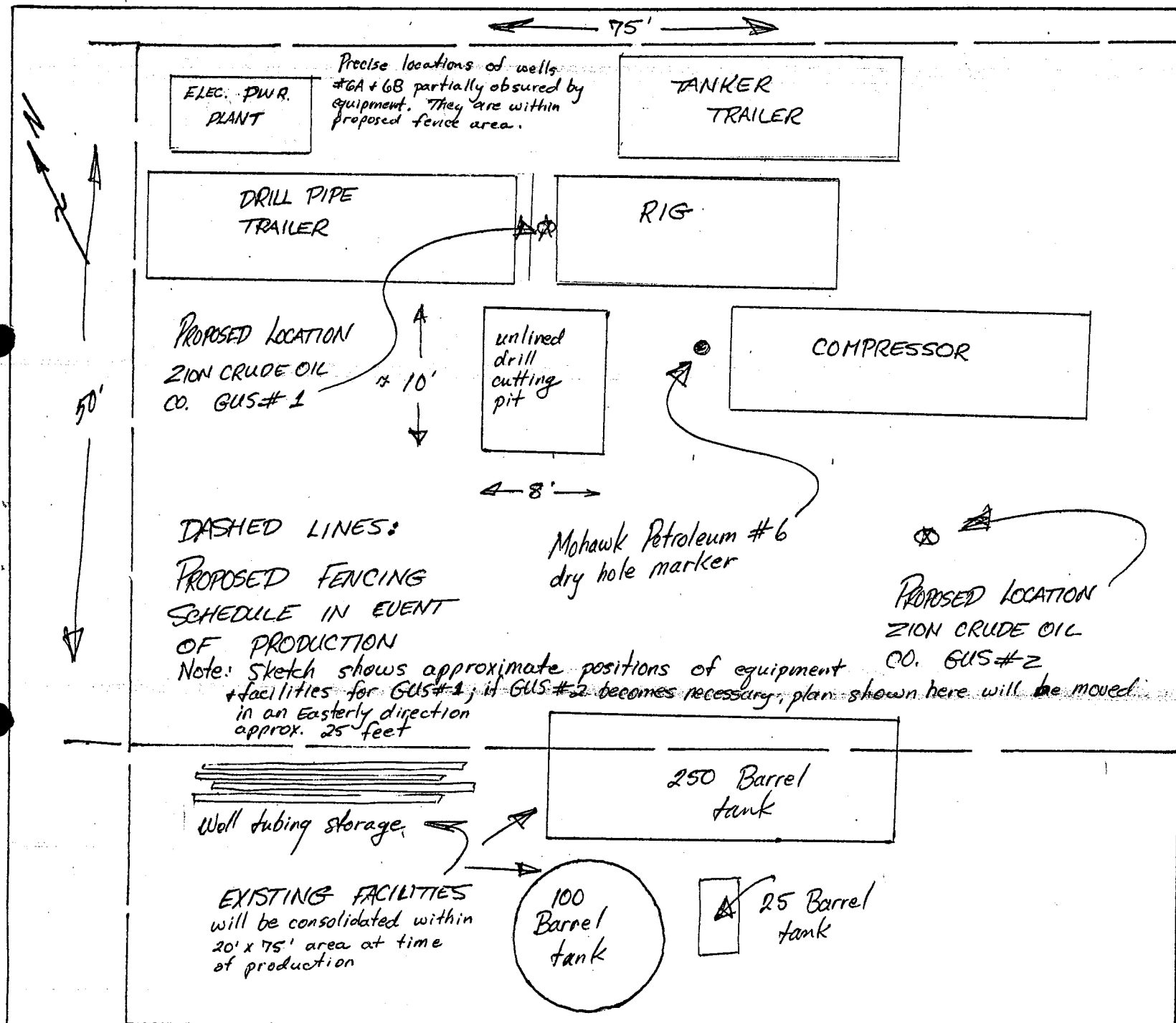
APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:



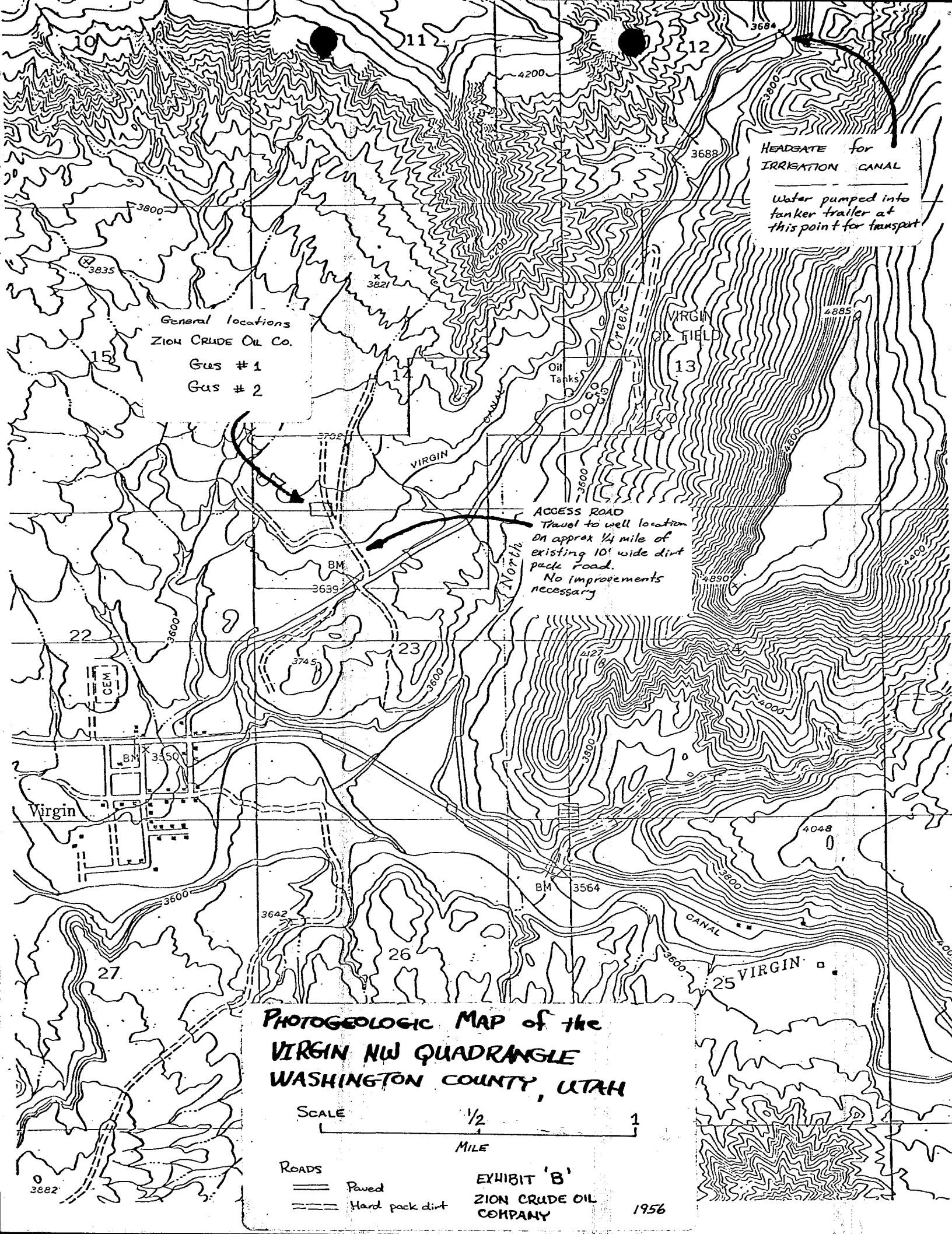
NOTE: NO additional Surface disturbance over presently cleared area will be required for GUS #1 + GUS #2

Location of EXISTING + PROPOSED FACILITIES for DRILLING + PRODUCTION of GUS #1 + #2

SCALE 1" = 10' DATE 4-22-77 Sketch By HK EXHIBIT 'C' ZION CRUDE OIL CO.

NOTE: DIMENSIONS INDICATED + POSITIONS SHOWN ARE APPROXIMATE

See attached certified survey plat for precise location of GUS #1 + #2 in S/2 SW/4 SEC 14 + N/2 NW/4 SEC 23 T41S R12W



General locations  
ZION CRUDE OIL CO.  
Gas # 1  
Gas # 2

HEADGATE for  
IRRIGATION CANAL

Water pumped into  
tanker trailer at  
this point for transport

ACCESS ROAD  
Travel to well location  
on approx 1/4 mile of  
existing 10' wide dirt  
pack road.  
No improvements  
necessary

**PHOTOGEOLOGIC MAP of the  
VIRGIN NW QUADRANGLE  
WASHINGTON COUNTY, UTAH**

SCALE  $\frac{1}{2}$  1  
MILE

ROADS  
== Paved  
--- Hard pack dirt

EXHIBIT 'B'  
ZION CRUDE OIL  
COMPANY

1956

STATE OF UTAH  
DIVISION OF OIL, GAS, AND MINING

\*\* FILE NOTATIONS \*\*

**CONFIDENTIAL**

Date: May 10 -  
Operator: 3in Crude Oil  
Well No: Gas #2  
Location: Sec. 23 T. 41S R. 12W County: Washington

File Prepared ☒  
Card Indexed ☒

API No ☒  
Entered on N.I.D. ☒  
Completion Sheet ☒

CHECKED BY:

Administrative Assistant [Signature]

Remarks:

Petroleum Engineer [Signature]

Remarks:

Director 2

Remarks:

INCLUDE WITHIN APPROVAL LETTER:

Bond Required ☐

Survey Plat Required ☐

Order No. ☐

Surface Casing Change ☐  
to ☐

Rule C-3(c), Topographic exception/company owns or controls acreage  
within a 660' radius of proposed site ☐

O.K. Rule C-3 ☐

O.K. In ☐ Unit ☐

Other:

☒ Letter Written/Approved

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

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## 24.

SIGNED

*Martin Kretzing*

TITLE

Vice-President.

DATE

4-27-77

(This space for Federal or State office use)

PERMIT NO.

43-053-30029

APPROVAL DATE

(ORIG. SGD.) E. W. GUYNN

DISTRICT ENGINEER

DATE

MAY 16 1977

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

ATTACHMENT 2-A

ZION CRUDE OIL  
LEASE #U-27359  
GUS #2  
SEC. 23 T41S R12W  
WASHINGTON County, UTAH  
BLM SUE CEDARLEAF  
USGS J. DENNIS  
REP. MARTIN KLETZING

- ☐ ENHANCES
- ☐ NO IMPACT
- ☒ MINOR IMPACT
- ☒ MAJOR IMPACT

Construction	Pollution	Drilling Production	Transport Operations	Accidents	Others
Roads, bridges, airports	Burning, noise, junk disposal	Well drilling	Trucks	Spills and leaks	
Transmission lines, pipelines	Liquid effluent discharge	Fluid removal (Prod. wells, facilities)	Pipelines	Operational failure	
Dams & impoundments	Subsurface disposal	Secondary Recovery	Others		
Others (pump stations, compressor stations, etc.)	Others (toxic gases, noxious gas, etc.)	Noise or obstruction of scenic views			
		Mineral processing (ext. facilities)			
		Others			

Land Use

Forestry	N/A
Grazing	N/A
Wilderness	N/A
Agriculture	N/A
Residential-Commercial	N/A
Mineral Extraction	0 0
Recreation	N/A
Scenic Views	N/A
Parks, Reserves, Monuments	N/A
Historical Sites	N/A
Unique Physical Features	N/A

Flora & Fauna

Birds	/	/	/	/	/	/	/	/	/
Land Animals	/	/	/	/	/	/	/	/	/
Fish	N/A	/							
Endangered Species									
Trees, Grass, Etc.	/	/	/	/	/	/	/	/	/

NONE KNOWN

Phy. Character.

Surface Water	/	/	/	/	/	/	/	/	/
Underground Water	/			/	/				
Air Quality	/	/	/	/	/	/	/	/	/
Erosion	/	/	/	/	/	/	/	/	/
Other									

Effect On Local Economy	/	0	0	/	0	0	0	/	/
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Safety & Health	/	/	/	/	/	/	/	/	/
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Others: Orig. File  
C: Reg - Denney  
BLM - St. George  
State Oil & Gas



Lease U-27359

Well No. & Location Gus #2 SEC: 23 T41S R12W

WASHINGTON County, UTAH

ENVIRONMENTAL IMPACT ANALYSIS - ATTACHMENT 2-B

1. Proposed Action

Zion Crude Oil Co PROPOSES TO DRILL AN OIL AND GAS TEST WELL WITH ROTARY TOOLS TO ABOUT 2000 FT. TD. 2) TO CONSTRUCT A DRILL PAD 50 FT. X 75 FT. AND A RESERVE PIT 8 FT. X 10 FT. 3) TO CONSTRUCT \_\_\_\_\_ FT. X N/A MILES ACCESS ROAD AND UPGRADE \_\_\_\_\_ FT. X N/A MILES ACCESS ROAD FROM AN EXISTING AND IMPROVED ROAD.

2. Location and Natural Setting (existing environmental situation)

This site is located in an old ABD TRASH Dump  
THE AREA IS FLAT - THE LOCATION IS AN ABD DRILL  
SITE PREVIOUSLY DRILLED BY ZION CRUDE (WELLS #6, 6A  
AND 6B) Gus #2 will be drilled in the event  
Gus #1 is A dry Hole - NO NEW GROUND  
DISTURBANCE REQUIRED

REFER TO ITEM 11 OF THE 12 PT. SURFACE USE  
PLAN FOR NATURAL SETTING

RESTORATION OF THE AREA will be done upon  
completion of the well drilling activity -

REQUIRED DRY hole MARKER, CLEAN UP AREA AND  
RESTORATION by GRADING & LEVELING, RESEEDING will  
BE done according to B.L.M. RECOMMENDATIONS.

3. EFFECTS ON ENVIRONMENT BY PROPOSED ACTION.

- 1) EXHAUST EMISSIONS FROM THE DRILLING RIG POWER UNITS AND SUPPORT TRAFFIC ENGINES WOULD ADD MINOR POLLUTION TO THE ATMOSPHERE IN THE LOCAL VICINITY.

- 2) MINOR INDUCED AND ACCELERATED EROSION POTENTIAL DUE TO SURFACE DISTURBANCE AND SUPPORT TRAFFIC USE.

- 3) MINOR VISUAL IMPACTS FOR A SHORT TERM DUE TO OPERATIONAL EQUIPMENT AND SURFACE DISTURBANCE.

- 4) TEMPORARY DISTURBANCE OF WILDLIFE AND LIVESTOCK.

- 5) MINOR DISTRACTION FROM AESTHETICS FOR SHORT TERM.

- 6)

#### 4. Alternatives to the Proposed Action

- 1) NOT APPROVING THE PROPOSED PERMIT -- THE OIL AND GAS LEASE GRANTS THE LESSEE EXCLUSIVE RIGHT TO DRILL FOR, MINE, EXTRACT, REMOVE AND DISPOSE OF ALL OIL AND GAS DEPOSITS.

- 2) DENY THE PROPOSED PERMIT AND SUGGEST AN ALTERNATE LOCATION TO MINIMIZE ENVIRONMENTAL IMPACTS.

- 3) NO ALTERNATE LOCATION WOULD JUSTIFY THIS ACTION.

5. Adverse Environmental Effects Which Cannot Be Avoided

1) MINOR AIR POLLUTION DUE TO EXHAUST EMISSIONS FROM RIG ENGINES AND SUPPORT TRAFFIC ENGINES.

2) MINOR INDUCED AND ACCELERATED EROSION POTENTIAL DUE TO SURFACE DISTURBANCE AND SUPPORT TRAFFIC USE.

3) MINOR AND TEMPORARY DISTURBANCE OF WILDLIFE.

4) TEMPORARY DISTURBANCE OF LIVESTOCK.

5) MINOR AND SHORT-TERM VISUAL IMPACTS.

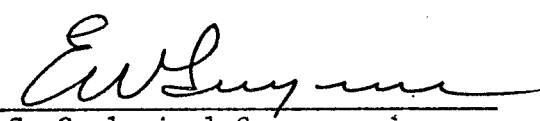
6)

6. Determination

(This requested action ~~does~~ (does not) constitute a major Federal action significantly affecting the environment in the sense of NEPA, Section 102(2) (c).

Date Inspected 5-10-77

Inspector 

  
U.S. Geological Survey,  
Conservation Division  
Salt Lake City District  
Salt Lake City, Utah

## U.S. GEOLOGICAL SURVEY, CONSERVATION VISION

FROM: DISTRICT GEOLOGIST, SALT LAKE CITY, UTAH

TO: DISTRICT ENGINEER, SALT LAKE CITY, UTAH

Well	Location	Lease No.
ZION Crude Oil Co. # GUS #2	40' FNL, 1240' FWL, SEC. 23, T41S R12W, SLM, WASHINGTON Co., UTAH, TREL 3612'	U-27359
<p>1. Stratigraphy and Potential Oil and Gas Horizons. <i>The well will spud in covering deposits of windblown silt &amp; alluvium &amp; Moenkopi Formation. The Kaibab was encountered at 695' in E.R. Bardwell #1 (elev. 3602'), same section. The structure is a north dipping monocline with porosity pinchout.</i></p> <p>2. Fresh Water Sands.  <i>See WRD report on page 2.</i></p> <p>3. Other Mineral Bearing Formations. (Coal, Oil Shale, Potash, Etc.)  <i>well is approximately 4 miles east of the KGRA.</i></p> <p>4. Possible Lost Circulation Zones.  <i>unknown.</i></p> <p>5. Other Horizons Which May Need Special Mud, Casing, or Cementing Programs.  <i>unknown.</i></p> <p>6. Possible Abnormal Pressure Zones and Temperature Gradients.  <i>unknown.</i></p> <p>7. Competency of Beds at Proposed Casing Setting Points.  <i>Probably competent.</i></p> <p>8. Additional Logs or Samples Needed.  <i>None.</i></p> <p>9. References and Remarks <i>Within the Virgin K.G.S.</i></p>		
Date: <i>5-5-77</i>		Signed: <i>Eileen Pera</i>

Depths of fresh-water zones:

E. G. Stubbs, Virgin No. 1

620' fsl, 578' fwl, lot 7, T. 41 S., R. 11 W., SLBM, Washington Co. Utah  
Elev. 3,800 ft GL, test to 2,500 ft

<u>Stratigraphic unit</u>	<u>Tops, approx.</u>	<u>Quality of water</u>
Moenkopi Fm	surface	useable/saline
Kaibab Ls	1,160 ft	useable (?)
Toroweap Fm	1,500	useable (?)
Coconino Ss	1,900	useable (?) / saline
Pennsylvanian	2,000	saline/brine

Water wells in the vicinity of the proposed test do not exceed 400 ft in depth. The chemical quality of water from the Kaibab Ls and Toroweap Fm is not known, but may be useable. Aquifers of Pennsylvanian age probably contain saline water or brine.

USGS - WRD  
2-17-71

District Oil and Gas Engineer  
U. S. Geological Survey  
Conservation Division  
8440 Federal Building  
Salt Lake City, Utah 84138.

REF: ZION CRUDE OIL COMPANY  
GUS #2

Re: Stipulation

Dear Sir:

ZION CRUDE OIL COMPANY is the owner of U. S. Oil and Gas Lease U-27359, and proposes to drill a well on the leased premises to test for oil and gas at a location in the NE 1/4 NW 1/4 NW 1/4 Section 23, T. 41S, R. 12W, S.L.B + Mer., WASHINGTON County, State of UTAH, 1240.35 feet from WEST line and 40.4 feet from NORTH line of Section 23.

Section 221.20 of the Federal Oil and Gas Regulations requires that no well be drilled less than 200' from the boundary of any legal subdivision without the written consent of the Supervisor, United States Geological Survey. The proposed location is approximately 40 feet from the South boundary line of the SW 1/4 SW 1/4 of Section 14, ~~and is considered necessary because of~~

~~AND 85 feet from the South and West boundary line of the SE 1/4 SW 1/4 of SEC 14, AND 85 feet from the West boundary line of the NE 1/4 NW 1/4 of SEC 23, but is considered necessary because of possible hole deviation from the target oil zone due to subterranean faulting~~

Therefore, ZION CRUDE OIL COMPANY, Lessee, requests the consent of the Supervisor to the drilling of the proposed well at the above-described location. In consideration of such consent, ZION CRUDE OIL COMPANY, Lessee, hereby expressly covenants and agrees that he will make no separate assignments of the S 1/2 SW 1/4 of SEC 14 and the N 1/2 NW 1/4, Section 23, T. 41S, R. 12W, S.L.B Mer., and that he will keep the two described subdivisions under joint assignment until the above-mentioned well has been plugged and abandoned with the approval of the Supervisor.

Very truly yours,

*Martin Kuetzing*

MARTIN KUETZING

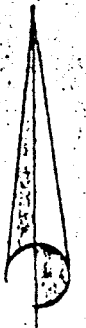
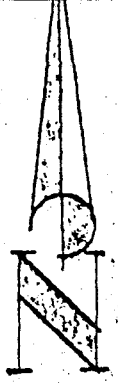
VICE-PRESIDENT

ZION CRUDE OIL COMPANY

APRIL 27, 1977

WEST 1/4 CORNER  
SEC 14, T41N, R12W,  
SLB # M

CENTER SECTION LINE



SCALE: 1"=300'

N 89° 53' 30" E

2657.52' ±

1327.92'

N 0° 18' 11" W

1327.92'

SOUTH 1/2, SOUTHWEST 1/4  
SEC. 14, T41N, R12W  
SLB # M

EXHIBIT "A"

S15 S14  
S22 S23

SOUTHWEST COR.  
SEC 14, T41N, R12W  
SLB # M

ZION CRUDE OIL CO.  
PROPOSED LOCATION GUS #2

WEST

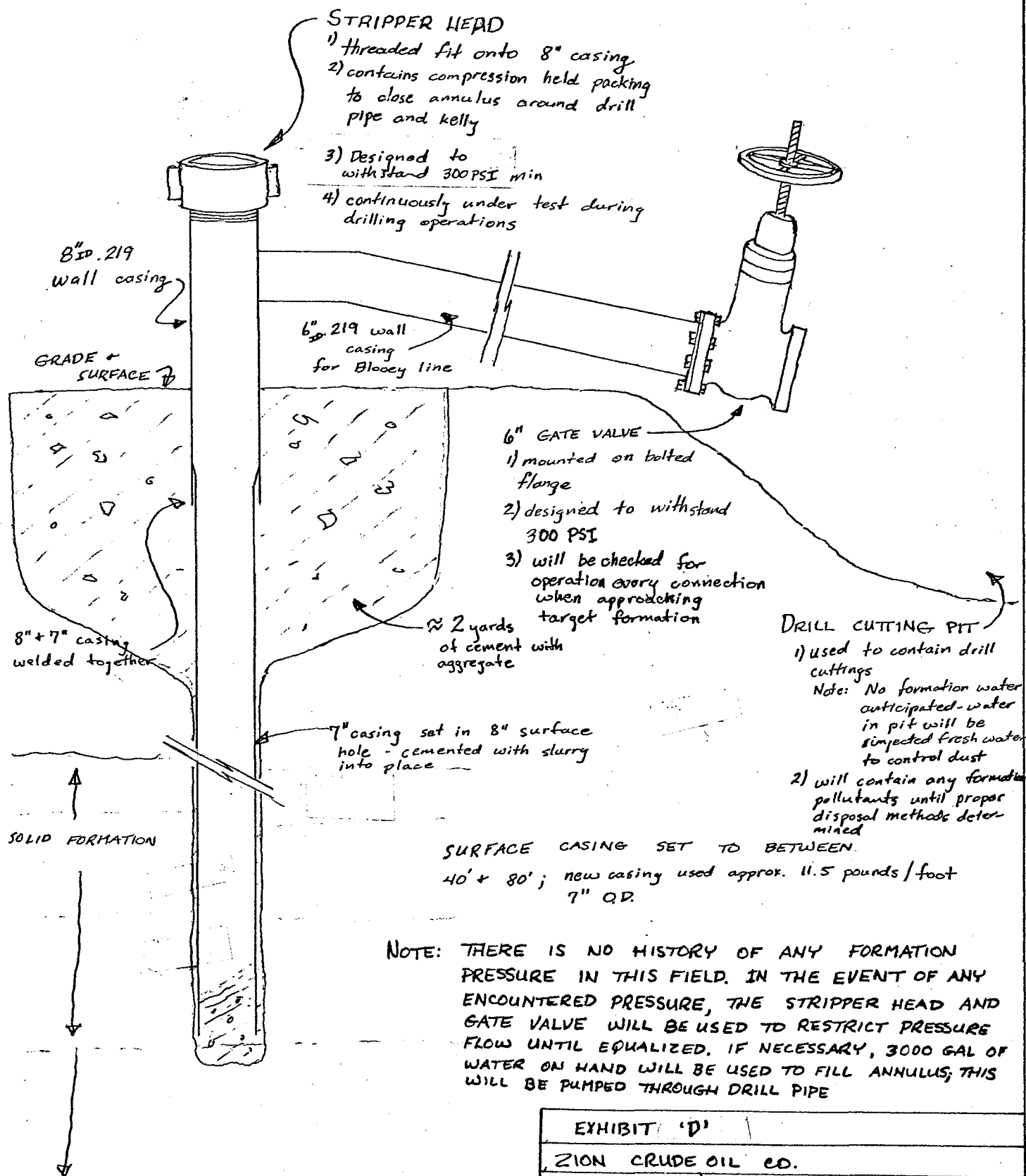
2653.80'

12.14'

OIL WELL LOCATION  
6" CASING MARKED  
MOHAWIC PETROLEUM 1958

10.0'

28.0'



# EXHIBIT 'D'

ZION CRUDE OIL CO.

REF. GUS # 1 + # 2 | SCALE 1/16" = 1" | DATE 4-22-77 | HK

- 1) SURFACE CASING
- 2) BLOW OUT PREVENTION
- 3) PIT DESCRIPTION



EXHIBIT "E"

ADDITIONAL INFORMATION REQUIRED TO ACCOMPANY APD

Attached to Form 9-331C  
Zion Crude Oil Company  
GUS #1: 1242.35 FWL 2.86' FSL SEC 14  
GUS #2: 1240.35' FWL 40.14' FNL SEC 23  
T41S R12W  
Washington County, Utah

1. The geologic name of the surface formation: moenkopi.
2. Estimated tops of important geologic markers:
  - A) Kaibab 500'
  - B) Coconino 1000'
  - C) Mississippi 1500' to TD
3. We feel that the specified locations of GUS #1 and GUS #2 will avoid any significant water intrusions. The oil bearing formations will be one or more of those listed in point 2 above.
4. Only surface casing is planned. Setting depth will be between 40' and 80' depending on whether or not any surface water is encountered. The casing is new, approx. 7" O.D. & 11.5 pounds/foot. This casing will be set in an 8" surface hole and cemented into place with slurry.
5. The type of drilling is 'down hole percussion'. Air will be used as a circulation medium. Fresh water will be injected either into the air line or into the blooey line for dust control. Because the drilling history in this area indicates no formation pressure, our stripper head and blooey line gate valve will be used in the event of any momentary pressure. If further necessary, 3000 gal. of fresh water from our tanker will be used to quench or weight any pressure. Maximum momentary pressure would be 100 pounds. SEE EXHIBIT "D"
6. Exhibit "D" shows a sketch to scale describing BOP equipment, pressure ratings, testing procedures and frequency.
7. Auxiliary pressure control equipment consists of:
  - A) Integral check valve in percussion tool (300 PSI min. test) to prevent flow upward through drill pipe.
  - B) A solid sub to be stabbed into drill pipe at surface when kelly is not in string.
8. There are no plans for coring any part of either well. Logs may be run at the completion of drilling.
9. No hazards of any sort are anticipated in either of these wells.
10. The spud-in date on the first well will be within 90 days of the received approved APD. 3-4 wks required for completion of each well.

## EXHIBIT "F"

### MULTIPOINT REQUIREMENTS TO ACCOMPANY APD

Attached to Form 9-331C  
Zion Crude Oil Company  
GUS #1: 1242.35' FWL 2.86' FSL SEC 14  
GUS #2: 1240.35' FWL 40.14' FNL SEC 23  
T41S R12W  
Washington County, Utah

#### 1. Existing Roads

- A. EXHIBIT "A" is the proposed well site as originally surveyed by Bush and Gudgell, Inc. Possible hole deviation from target oil zones in addition to the desire to avoid water formations led to these precise locations.
- B. EXHIBIT "B" is a photogeologic map showing the general area within several miles of the proposed location.
- C. The access road to the well site is labeled on EXHIBIT "B". This is an existing road as shown.
- D. Specific and general locations of existing shut-in wells in immediate area are shown on EXHIBITS "A" & "C".
- E. No improvement of the present access road is planned. Maintenance of this road will include occasional smoothing of any bumps or ruts with a front-end loader and the possible sprinkling with fresh water for dust control.

#### 2. Planned access Roads

- A. The access roads are shown and described in point 1 above and on EXHIBIT "B".

#### 3. Location of existing wells

- A. Locations of wells (all are dry and shut-in) are shown and described in EXHIBITS "A" & "C".

#### 4. Location of proposed and existing facilities

- A. EXHIBIT "C" shows the general layout and plan for existing and proposed facilities for drilling and for production. Any lines from the well head to the tank batteries will be on the surface. At the time of production, the area will be fenced.
- B. No facilities other than those shown are planned at the present time. Since the pump planned for use is submersible, no surface structure will be required over the well. There will be no open pits within the pad at the time of production. The entire pad is planned to be fenced.

4. cont.

C. Rehabilitation of disturbed areas will be as follows:

- 1) In the event of failure of one or both wells, and in the event no further APD's for the general location, the entire area will be vacated within a time frame specified at that time. The immediate area will be graded smooth to restore it to its original condition.
- 2) In the event of a producing well, the immediate drilling pad will be smoothed and the production facilities will be isolated by fencing.

5. Location of any type of water supply

- A. The precise location of our water supply is shown and described in EXHIBIT "B". The water is fresh.
- B. Water will be transported to the drilling location by means of a 3000 gallon tank trailer. The roads used are those shown on EXHIBIT "B".

6. Source of Construction Materials

- A. No aggregate materials will be required for any of the proposed operations. Soil required for leveling of the equipment will be that rearranged within the bounds of the drilling location pad.

7. Methods for Handling Waste Disposal

- A. 1,2,3: cuttings, and drilling or produced fluids will be contained within the pit described in EXHIBITS "C" & "D". In the event of a successful well, all recoverable oil in the pit will be transferred to one of the nearby tanks. The pit will be covered and smoothed over in either event.
- B. 4&5: There will be no sewage disposed of on the premises. Trash and other refuse will be contained in steel barrels and transported to the Virgin city dump.
- C. 6: SEE Point 4, Item C above.

## 8. Ancillary Facilities

No airstrips, camps or other living facilities will be built or needed.

## 9. Well Site Layout

- A. 1,2,3,4: EXHIBITS "C" & "D" show the general equipment layout and orientation and approximate size and cross section of drill cutting pit.

No additional surface disturbance will be required.

As stated, the cutting pit will be unlined.

## 10. Plans for Restoration of Surface

- (1) Backfilling and leveling will be accomplished as soon as possible after shutting-in or plugging well, or immediately on those areas unused if production is obtained.
- (2) We will contact the BLM for suggestions of seeding of area cleared for drilling pad. This will be done for the entire area or unused areas in event of production.
- (3) & (4) SEE Point 4, Item C and Point 7, Item A.
- (5) Rehabilitation of area should be complete within one to two weeks of completion of well drilling or production activities.

## 11. Other Information

- (1) The general topography is that of a gentle washed slope from the nearby mesas. The unconsolidated surface soil is very fine and extends to 10 or more feet below the surface. The flora consists of sage and scattered grasses. The fauna consists of infrequent rodents, snakes and insects. The overall area is extremely dry.
- (2) Grazing, former surface mining, evaporation pits, and off-road vehicle recreation constitute observed additional surface use. The BLM administers all of the land in this lease and the land which will be used directly in this drilling program. The roads and natural surface (river) is shown.
- (3) The general geological features of the area, roads nearest inhabited dwellings and layout of streams and of Virgin, Utah are shown in EXHIBIT "B".

12. Operators Representatives

Dr. Murel Goodell  
President, Zion Crude Oil Company  
POB 370  
Hurricane, Utah 84737

Phone: (801) 635-4872

Martin Kuetzing  
Vice-President, Zion Crude Oil Company  
POB 961  
Hurricane, Utah 84737

Phone: (801) 635-4872  
Res. (801) 635-4486

13. Certification

I hereby certify that I, for persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions that presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by Zion Crude Oil Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

April 25, 1977

Martin Kuetzing

Vice-President

District Oil and Gas Engineer  
U. S. Geological Survey  
Conservation Division  
8440 Federal Building  
Salt Lake City, Utah 84138

REF: ZION CRUDE OIL COMPANY  
GUS #2

Re: Stipulation

Dear Sir:

ZION CRUDE OIL COMPANY is the owner of U. S. Oil and Gas Lease U-27359, and proposes to drill a well on the leased premises to test for oil and gas at a location in the NE 1/4 NW 1/4 NW 1/4 Section 23, T. 41S, R. 12W, S.L.B + Mer., WASHINGTON County, State of UTAH, 1240.35 feet from WEST line and 40.4 feet from NORTH line of Section 23.

Section 221.20 of the Federal Oil and Gas Regulations requires that no well be drilled less than 200' from the boundary of any legal subdivision without the written consent of the Supervisor, United States Geological Survey. The proposed location is approximately

40 feet from the South boundary line of the SW 1/4 SW 1/4 of Section 14, ~~and is considered necessary because of possible hole deviation from the target oil zone due to subterranean faulting~~ AND 85 feet from the South and West boundary line of the SE 1/4 SW 1/4 of SEC 14, AND 85 feet from the West boundary line of the NE 1/4 NW 1/4 of SEC 23, but is considered necessary because of possible hole deviation from the target oil zone due to subterranean faulting

Therefore, ZION CRUDE OIL COMPANY, Lessee, requests the consent of the Supervisor to the drilling of the proposed well at the above-described location. In consideration of such consent, ZION CRUDE OIL COMPANY, Lessee, hereby expressly covenants and agrees that he will make no separate assignments of the S 1/2 SW 1/4 of SEC 14 and the N 1/2 NW 1/4, Section 23, T. 41S, R. 12W, S.L.B Mer., and that he will keep the two described subdivisions under joint assignment until the above-mentioned well has been plugged and abandoned with the approval of the Supervisor.

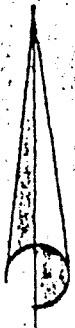
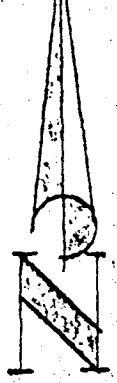
Very truly yours,

*Martin Kuetzing*

MARTIN KUETZING  
VICE-PRESIDENT  
ZION CRUDE OIL COMPANY  
APRIL 27, 1977

WEST 1/4 CORNER 1/2  
SEC 14, T41N, R12W,  
SLB # M

CENTER SECTION LINE



SCALE: 1"=300'

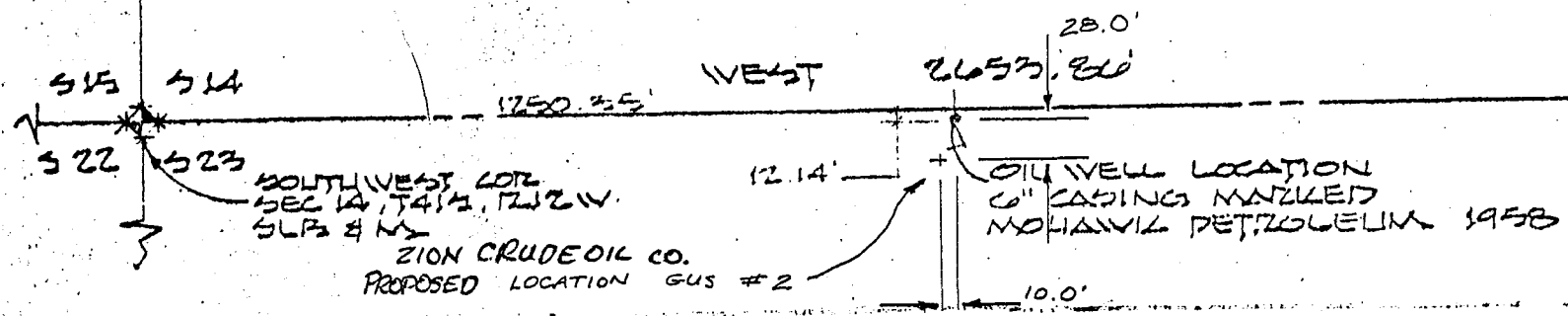
EXHIBIT "A"

1327.92'  
N 0° 18' 11" W  
1327.92'

N 89° 53' 30" E

2657.52' ±

SOUTH 1/2, SOUTHWEST 1/4  
SEC. 14, T41N, R12W  
SLB # M



May 18, 1977

Zion Crude Oil Co.  
P.O. Box 370  
Hurricane, Utah 84737

Re: Well No. Gus #1 and Gus #2  
Sec. 14 & 23, T. 41 S, R. 12 W,  
Washington County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to well is hereby granted in accordance with the General Rules and Regulations.

Should you determine that it will be necessary to plug and abandon these wells, you are hereby requested to immediately notify the following:

PATRICK L. DRISCOLL - Chief Petroleum Engineer  
HOME: 582-7247  
OFFICE: 533-5771

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling.

The API numbers assigned to these wells are:

#1: 43-053-30028

#2: 43-053-30029

Very truly yours,

CLEON B. FEIGHT  
Director

/SW

cc: U.S. Geological Survey

PLEASE NOTIFY THIS DIVISION WITHIN 24 HRS. OF SPUDDING



# ZION CRUDE OIL COMPANY

P. O. Box 370  
Hurricane, Utah 84737  
(801) 635-4872



June 11, 1977

Mr. Ed Guynn  
District Engineer  
U. S. Geological Survey  
Conservation Division  
8440 Federal Building  
Salt Lake City, Utah 84138

RE: Spud-in for GUS #2  
Federal Lease U-27359

Dear Mr. Guynn:

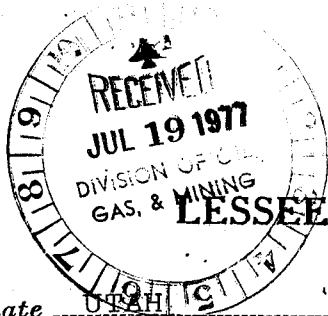
This letter is to advise you that Zion Crude Oil Company began drilling the surface hole for GUS #2 on June 10, 1977.

Sincerely,

*Martin Kuetzling*

Martin Kuetzling  
Vice-President

CONFIDENTIAL



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Form approved.  
Budget Bureau No. 42-B356.5.  
LAND OFFICE UTAH  
LEASE NUMBER U-27359  
UNIT \_\_\_\_\_

LESSEE'S MONTHLY REPORT OF OPERATIONS

State UTAH County WASHINGTON Field VIRGIN

The following is a correct report of operations and production (including drilling and producing wells) for the month of JUNE, 1977,

Agent's address P.O. Box 370 Company ZION CRUDE OIL COMPANY  
Hurricane, Utah 84737

Phone 801-635-4872 Signed Martin Kutzberg  
Agent's title Vice-President

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL No.	DATE PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
SW/4 SW/4 SEC 14	41S	12W	GUS #1	-0-	-0-		-0-	-0-	-0-	SHUT IN STATUS UNTIL COMPLETION OF GUS #2
SW/4 SW/4 SEC 14	41S	12W	GUS #2	-0-	-0-		-0-	-0-	-0-	SPUD-IN 6-10-77 TOTAL DEPTH 6-30-77 718' (proposed depth approx. 1000')

CONFIDENTIAL

NOTE.—There were \_\_\_\_\_ runs or sales of oil; \_\_\_\_\_ M cu. ft. of gas sold;

\_\_\_\_\_ runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

*Confid*

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Form approved.  
Budget Bureau No. 42-R356.5.

LAND OFFICE Utah  
LEASE NUMBER U-27359  
UNIT \_\_\_\_\_

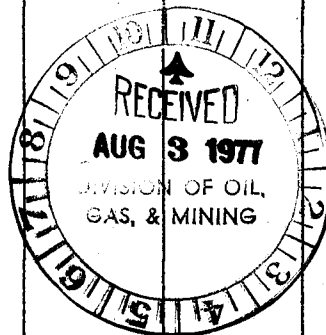
LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County WASHINGTON Field VIRGIN

The following is a correct report of operations and production (including drilling and producing wells) for the month of JULY, 1977,

Agent's address P.O. Box 370 Company Zion Crude Oil Company  
Hurricane, Utah 84737 Signed Martin Kutzig  
Phone 801-635-4872 Agent's title Vice-President

SEC. AND ¼ OF ¼	TWP.	RANGE	WELL NO.	DATE PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
SW/4 SW/4 SEC 14	41S	12W	GUS #2	-0-	-0-		-0-	-0-	-0-	TD reached 7-6-77 1012'
SW/4 SW/4 SEC 14	41S	12W	GUS #1	-6-	3 to 5	unkwn	-0-	-0-	2380	Production entirely water; rate of water decreased as expected



NOTE.—There were no runs or sales of oil; no M cu. ft. of gas sold;

no runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

## SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. U-27359	
2. NAME OF OPERATOR Zion Crude Oil Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
3. ADDRESS OF OPERATOR POBox 370, Hurricane, Utah 84737		7. UNIT AGREEMENT NAME	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface GUS #1: 3'FSL & 1242'FWL GUS #2: 23.50'FSL & 1210.42'FWL		8. FARM OR LEASE NAME	
14. PERMIT NO.		9. WELL NO. GUS #1 & GUS #2	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 3612' GR		10. FIELD AND POOL, OR WILDCAT VIRGIN	
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA SEC 14, T41S, R12W SLM	
		12. COUNTY OR PARISH Washington	
		13. STATE Utah	

## 16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

## NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF	<input checked="" type="checkbox"/>	PULL OR ALTER CASING	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	MULTIPLE COMPLETION	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	ABANDON*	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	CHANGE PLANS	<input type="checkbox"/>
(Other) General Cleanup of Area <input type="checkbox"/>			

## SUBSEQUENT REPORT OF:

WATER SHUT-OFF	<input type="checkbox"/>	REPAIRING WELL	<input type="checkbox"/>
FRACTURE TREATMENT	<input type="checkbox"/>	ALTERING CASING	<input type="checkbox"/>
SHOOTING OR ACIDIZING	<input type="checkbox"/>	ABANDONMENT*	<input checked="" type="checkbox"/>
(Other) <input type="checkbox"/>			

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

This Sundry Notice is to outline our intentions in the immediate future of Wells GUS #1 & GUS #2 as well as to report on clean-up operations of the location.

## A) GENERAL:

- 1) the drilling location has been graded and cleaned. Only equipment necessary for production remains on the location. The tanks have been cleaned and painted.
- 2) The three pits used for initial water disposal are ready for inspection by John Dennis, USGS, & subsequent leveling.

B) GUS #2: a completion report will be filed on this well; we want to keep the well open for observation for a period of 60 days, at which time we intend plugging and marking for abandonment.

## C) GUS #1:

- 1) Present plans include filing of completion report indicating it is ready for operation during a 60-day evaluation period already granted by the USGS, SLC, according to the procedure outlined in previous correspondence.
- 2) If during the evaluation period, we determine the desirability of additional well treatment to retard the flow of water into the well & facilitate the flow of oil, we would like permission for this. Specific details will be provided by the service

18. I hereby certify that the foregoing is true and correct company (B-J) at that time.

SIGNED

TITLE Vice-President

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

DATE

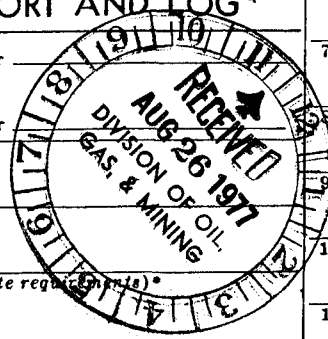
CONDITIONS OF APPROVAL, IF ANY:

BY:

**CONFIDENTIAL**SUBMIT IN DUPLICATE\*  
(See other instructions  
on reverse side)Release Date 12-6-78  
13STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*

1a. TYPE OF WELL:		OIL WELL <input checked="" type="checkbox"/>	GAS WELL <input type="checkbox"/>	DRY <input type="checkbox"/>	Other <input type="checkbox"/>
b. TYPE OF COMPLETION:		NEW WELL <input checked="" type="checkbox"/>	WORK OVER <input type="checkbox"/>	DEEP-EN <input type="checkbox"/>	PLUG BACK <input type="checkbox"/>
			DIFF. RESVR. <input type="checkbox"/>	Other <input type="checkbox"/>	
2. NAME OF OPERATOR Zion Crude Oil Company					
3. ADDRESS OF OPERATOR POBox 370, Hurricane, Utah 84737					
4. LOCATION OF WELL (Report location clearly and in accordance with any State regulations) At surface 23.50' FSL & 1210.43' FWL At top prod. interval reported below same At total depth same					
14. PERMIT NO.			DATE ISSUED 5-17-77		
15. DATE SPUDDED 6-10-77		16. DATE T.D. REACHED 7-6-77		17. DATE COMPL. (Ready to prod.) dry hole 9-30-77	
18. ELEVATIONS (DF, REB, RT, GR, ETC.)* 3612' GR		19. ELEV. CASINGHEAD 3612' GR			
20. TOTAL DEPTH, MD & TVD 1012' TD		21. PLUG, BACK T.D., MD & TVD ---		22. IF MULTIPLE COMPL., HOW MANY* ---	
23. INTERVALS DRILLED BY percussion		ROTARY TOOLS		CABLE TOOLS	
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* ----					25. WAS DIRECTIONAL SURVEY MADE no
26. TYPE ELECTRIC AND OTHER LOGS RUN no logs run on this well					27. WAS WELL CORED no



28. CASING RECORD (Report all strings set in well)					
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
7" OD	11.5#/Ft.	90'	8" to 90'	approx. 2 yds. for surface	
			6" from 90' to TD		

29. LINER RECORD					30. TUBING RECORD		
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
none					none		

31. PERFORATION RECORD (Interval, size and number)		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
three pound radial charge @ 900'		DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
resulting in no fluid influx.		----	

33.* PRODUCTION							
DATE FIRST PRODUCTION ----		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) -----				WELL STATUS (Producing or shut-in) shut-in	
DATE OF TEST ----	HOURS TESTED ----	CHOKE SIZE ----	PROD'N. FOR TEST PERIOD -----	OIL—BBL. ----	GAS—MCF. ----	WATER—BBL. ----	GAS-OIL RATIO ----
FLOW. TUBING PRESS. ----	CASING PRESSURE ----	CALCULATED 24-HOUR RATE -----	OIL—BBL. ----	GAS—MCF. ----	WATER—BBL. ----	OIL GRAVITY-API (CORR.) -----	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) none produced	TEST WITNESSED BY
---	-------------------

35. LIST OF ATTACHMENTS  
NONE; well shut-in for 60 days; will be plugged and marked for abandonment

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

Martin Kratzig

TITLE Vice-President

DATE 8-25-77

\*(See Instructions and Spaces for Additional Data on Reverse Side)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Form approved.  
Budget Bureau No. 42-R856.5.  
LAND OFFICE UTAH  
LEASE NUMBER U-27359  
UNIT \_\_\_\_\_

## LESSEE'S MONTHLY REPORT OF OPERATIONS

State UTAH County WASHINGTON Field VIRGIN

The following is a correct report of operations and production (including drilling and producing wells) for the month of AUGUST, 1977,

Agent's address P.O. Box 370 Company Zion Crude Oil Company  
Hurricane, Utah 84737 Signed Martin Kuefing

Phone 801-635-4872 Agent's title Vice-President

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DATE PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
SW/4 SW/4 SEC 14	41S	12W	GUS #1	-5-	trace	unkwn	-0-	-0-	1200	Shut-in on 8-5-77, pending approval of water disposal into #6A.
same			GUS #2	-0-	-0-	-0-	-0-	-0-	-0-	shut-in; will be plugged.

NOTE.—There were no runs or sales of oil; no M cu. ft. of gas sold;

no runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Form approved.  
Budget Bureau No. 42-R356.3.  
LAND OFFICE UTAH  
LEASE NUMBER U-27359  
UNIT \_\_\_\_\_

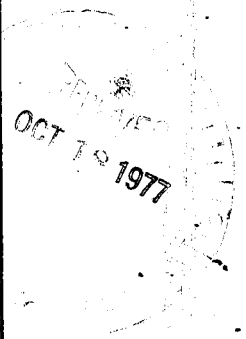
## LESSEE'S MONTHLY REPORT OF OPERATIONS

State UTAH County WASHINGTON Field VIRGIN  
The following is a correct report of operations and production (including drilling and producing wells) for the month of SEPTEMBER, 1977,  
Agent's address P.O.Box 370 Company Zion Crude Oil Company  
Hurricane, Utah 84737 Signed Martin Kuetzing  
Phone 801-635-4872 Agent's title Vice-President

SEC. AND ¼ OF ¼	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
SW/4 SW/4 SEC14	41S	12W	GUS #2	-0-	-0-	-0-	-0-	-0-	-0-	plugged and marked with dry hole marker
same			GUS #1	10	-2-	30.6	-0-	-0-	300	operation began 9-10-77; as anticipated, water volume decreased

NOTE.—There were -0- runs or sales of oil; -0- M cu. ft. of gas sold;  
-0- runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.



STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

SUBMIT **TRIPPLICATE\***  
(Other instructions on reverse side)

# SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. U-27359
2. NAME OF OPERATOR Zion Crude Oil Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR P.O. BOX 370, Hurricane, Utah 84737		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface GUS #1: 3' FSL & 1242' FWL GUS #2: 23.50' FSL & 1210.43' FWL		8. FARM OR LEASE NAME
14. PERMIT NO.		9. WELL NO. GUS #1 & GUS #2
15. ELEVATIONS (Show whether DF, RT, OR, etc.) 3612' GR		10. FIELD AND POOL, OR WILDCAT VIRGIN
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA SEC 14, T41S, R12W, SLM
		12. COUNTY OR PARISH WASHINGTON
		13. STATE UTAH

## 16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

### NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐FRACTURE TREAT ☐SHOOT OR ACIDIZE ☐REPAIR WELL ☐

(Other) operation #1/plug #2

PULL OR ALTER CASING ☐MULTIPLE COMPLETE ☐ABANDON\* ☐CHANGE PLANS ☐

### SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐FRACTURE TREATMENT ☐SHOOTING OR ACIDIZING ☐(Other) ☐REPAIRING WELL ☐ALTERING CASING ☐ABANDONMENT\* ☐

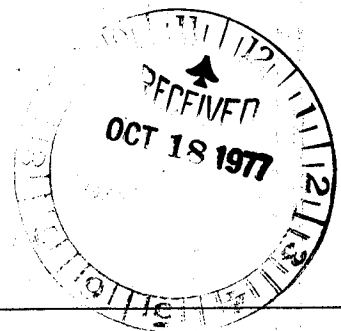
(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

1) 9-30-77, Well GUS #2 was plugged back and marked with a dry hole marker.

2) GUS #1 was operated on an intermittent basis. As expected, the volume of water entering the well bore has decreased to about 10% of the volume specified in the original request for disposal of water into #6A. In addition water analysis has shown the solid particle content of the waste water to have decreased from 37000 ppm to under 4000 ppm.

We intend continued operation of GUS #1 on an intermittent basis with the disposal of 100 barrels of water every two weeks into well #6A.



18. I hereby certify that the foregoing is true and correct

SIGNED

*Martin Kuefing*

TITLE Vice-President

DATE 10-12-77

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY: